UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/535,470	05/17/2005	Peter Jan Slikkerveer	259350	6155
23460 7590 11/26/2007 LEYDIG VOIT & MAYER, LTD TWO PRUDENTIAL PLAZA, SUITE 4900			EXAMINER	
			MA, CALVIN	
180 NORTH S CHICAGO, IL	TETSON AVENUE	•	ART UNIT	PAPER NUMBER
emendo, in	7 00001 0751		2629	
			MAIL DATE	DELIVERY MODE
			11/26/2007 •	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		I A II				
	Application No.	Applicant(s)				
	10/535,470	SLIKKERVEER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Calvin Ma	2629				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIO 36(a). In no event, however, may a rivill apply and will expire SIX (6) MON 1 cause the application to become AB	CATION. reply be timely filed ITHS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status		•				
1) Responsive to communication(s) filed on 17 M	<u>ay 2005</u> .					
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-16 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers		,				
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 17 May 2005 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	☑ accepted or b)☐ object drawing(s) be held in abeyat tion is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) ⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. ☑ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 11/28/2005.	Paper No(Summary (PTO-413) (s)/Mail Date Informal Patent Application				

10/535,470 Art Unit: 2629

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

The references listed on the Information Disclosure Statement filed on November
 28, 2005 have been considered by examiner; see attached PTO-1449.

Specification

- 3. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.
- 4. Claim 10 is objected to because of the following informalities: the phrase "comprise" in the second line should be changed to comprises. Appropriate correction is required.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

10/535,470 Art Unit: 2629

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 6. Claims 1-16 are rejected under 35 U.S.C. 102(e) as being anticipated by Sawyer (US Pub: 2004/0052037).

As to claim 1, Sawyer discloses a display device assembly (i.e. the portable computer device having flexible display device 200) comprising a flexible display device (102) being rollable around an axis (i.e. spool axis 218), the flexible display having a front side (i.e. the side of the display that is facing the user) and a back side (i.e. the side of the display that is facing away from the user), one of the sides being provided with distance means (i.e. the extension member 208 provide distance when the display is rolled up) for preventing a direct contact between the front side (3) and the back side (see Fig. 7-10, [0037], [0038], [0039]).

As to claim 2, Sawyer teaches a flexible display device assembly according to claim 1, wherein the distance means comprise bars (108), which are positioned so as to induce bending lines (i.e. the lines that exist in the bending of the bar 108 which is a

10/535,470

Art Unit: 2629

part of the display) in the flexible display device that are oriented substantially parallel to the axis (218) (see Fig. 6-10, [0035], [0037], [0038]).

As to claim 3, Sawyer teaches a flexible display device assembly according to claim 2, wherein the bars (108) comprise transparent material (i.e. the 106 and 108 material can be transparent material) (see Fig.4-6, [0036]) and are mounted on the front side (i.e. since the 108 bars are located at the end of the display 100 it can be considered as being mounted at the front side) of the flexible display (100) (see Fig. 6, [0035]).

As to claim 4, Sawyer teaches a flexible display device assembly according to claim 2, wherein the bars (108) are positioned against each other, such that rolling of the flexible display device may occur in only one direction (i.e. since the two 108 support bar are at the two end of the display and are bent in the middle forming an arc shape it will only bend in the forward direction) (see Fig. 6-10, [0035], [0037], [0038]).

As to claim 5, Sawyer teaches a flexible display device assembly according to claim 2, wherein the flexible display device is further provided with a layer of flexible material (i.e. the material that join the front display with the extension bar 108) that is positioned between the bars (108) and the back side (i.e. the backside of 102) of the

10/535,470

Art Unit: 2629

display (i.e. from the figure 5 it is clear that the support element 108 is joined to the 102 display at the point 110 which must be attached by a adhesive material which must also be flexible since the whole assembly must be able to roll up) (see Fig. 5, [0033], [0034]).

As to claim 6, Sawyer teaches a flexible display device assembly according to claim 2, wherein the bars (108) are provided to the display in the form of a piece of material having grooves (i.e. the bars are bent and have groves that allow for easier bending on one side) that are oriented substantially parallel to the axis (i.e. the groves are parallel to the axis of rotation in order for the bar to bend and roll up inward) (see Fig. 6-10, [0035], [0037], [0038]).

As to claim 7, Sawyer teaches a flexible display device assembly according to claim 2, wherein outer portions (i.e. the end of the outer portion of 208) of the spacer elements (208) are provided with spacer blocks (i.e. the joints attaching support 208 with handle 222) for creating a housing for the flexible display device in the rolled-up state (i.e. the blocks are the joint which is attached to both support element 208 that together with the handle 222 forms a housing that contains the entire roll of flexible display inside of the computer device) (see Fig. 7-10, [0038], [0039]).

10/535,470

Art Unit: 2629

As to claim 8, Sawyer teaches a flexible display device assembly according to claim 2, wherein blocks (i.e. the joints attaching support 208 with handle 222) are positioned on aback side (i.e. the end of the outer portion of 208) of the bars (208) (i.e. the blocks are the joint which is attached to both support element 208 that together with the handle 222 forms a housing that contains the entire roll of flexible display inside of the computer device) (see Fig. 7-10, [0038], [0039]).

As to claim 9, Sawyer teaches a flexible display device assembly according to claim 7, wherein each spacer block (208) has a display side (i.e. the extension element 208 has a side that is facing the user) that is provided with a notch (i.e. the attachment portion of 208 to the handle 222 form a notch) for receiving the flexible display device (i.e. the two side element 208 is attached to the handle 222 with a notch which also receives the flexible display 204) (see Fig. 9-10, [0039]).

As to claim 10, Sawyer teaches a flexible display device assembly according to claim 1, wherein the distance means comprise a protection foil (i.e. the extension member 208 can be a flexible foil having the ability to extend along with the display unit) (see Fig 7, [0037]).

10/535,470 Art Unit: 2629

As to claim 11, Sawyer teaches a flexible display assembly according to claim 10, wherein the display assembly (200) further comprises guiding means (i.e. the guiding handle 222) for guiding the protection foil (i.e. part of the 208 support element in the 206 support structure) when the assembly (i.e. the flexible display 204) is being rolled into the unrolled state, such that the front side (i.e. the front of display 204) of the display is not covered by the protection foil (i.e. the display support 208 is situated behind the display and does not obstruct the view of the display) (see Fig. 5, 7-10, [0037], [0038], [0039]).

As to claim 12, Sawyer teaches a flexible display assembly according to claim 11, wherein the protection foil (i.e. part of the 208 support element in the 206 support structure) is connected to the back side (i.e. the backside of the display 100) of the display (see Fig. 5, [0033], [0034]).

As to claim 13, Sawyer teaches a flexible display assembly according to claim 11, wherein the display assembly is further provided with storing means (i.e. the housing 216) for storing the protection foil (i.e. part of the 208 support element in the 206 support structure), when the display is in the unrolled state (i.e. part of the foil is always stored in the housing as it can not fully extend out of the housing even in the unrolling) (see Fig. 9, [0039]).

10/535,470 Art Unit: 2629

As to claim 14, Sawyer teaches a flexible display assembly according to claim 13, wherein the storing means comprise a cylindrically shaped element (i.e. the housing cavity that stores the extendable display spool 218 is a cylindrically shaped compartment of 216) for winding the protection foil around (see Fig. 8, [0039]).

As to claim 15, Sawyer teaches a flexible display assembly according to claim 13, wherein the storing means (i.e. the housing cavity that stores the extendable display spool 218 is a cylindrically shaped compartment of 216) is arranged to enable a translational movement with respect to the housing (216) (i.e. since the spool rotate to allow the display 204 to be extracted in has translational movement with respect to the housing 216) (see Fig. 9, [0039]).

As to claim 16, Sawyer teaches a flexible display assembly according to claim 11, wherein the assembly is provided with a cylindrically shaped element for winding the display around (i.e. 218 spool), said cylindrically shaped element being arranged to be translatable with respect to the housing (i.e. since the spool rotate to allow the display 204 to be extracted in has translational movement with respect to the housing 216) (see Fig. 9, [0039]).

10/535,470 Art Unit: 2629

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Radley-Smith (US Patent: 6,216,490) is cited to teach a similar flexible display having bar spacer, Koebel (US Patent: 4,221,292) and Baldock (US Patent: 5,548,940) are cited to teach a spacing system for a roll of film.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Calvin Ma whose telephone number is (571) 270-1713. The examiner can normally be reached on Monday - Friday 7:30 - 5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chanh Nguyen can be reached on (571) 272-7772. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

10/535,470 Art Unit: 2629

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Calvin Ma November 20, 2007

> CHANH D. NGUYEN V SUPERVISORY PATENT EXAMINER